

WATER PURIFICATION APPARATUS AND METHOD FOR PURIFYING WATER

ABSTRACT OF THE DISCLOSURE

A purifier is connected to tap water and produces pure distilled water. Valves and sensors
5 automatically control functions throughout separate cycles of operation, including distillation,
wash, and rejuvenation cycles. During distillation, tap water is boiled in a distillation
chamber. A carbon filter captures impurities from the resulting vapors occurring at lower
boiling temperatures while higher temperature water vapors are passed through a condenser
to produce pure distilled water held in a reservoir. In the wash cycle, a cleaning agent is
10 injected into the distillation chamber, mixed with tap water, and heated and drained prior to
rinsing the chamber to remove mineral deposits. During rejuvenation, a heating element
superheats pure water remaining in the filter to release contaminants from the filter pores to
cleanse and revive the filter media. A flavor agent, minerals, and/or vitamins may be added
to the pure water prior to dispensing from a spigot or other fixture.

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